

Amendments To The Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A rolling-contact bearing containing a solid lubricant therein[[;]] comprising;

an inside rotating member having a guideway area made thereon with a first raceway, an outside rotating member ~~rotary-relatively~~ relative to the inside rotating member and having a second raceway ~~opposing~~ opposed to the first raceway[[,]]; and

a cage with rollers spaced at a preselected interval around the cage to roll through a circular cylindrical race defined between the first raceway on the inside rotating member and the second raceway on the outside rotating member;

wherein the cage with the rollers ~~is formed together with~~ are engaged together as a separate unitary molding in a mold by a solid lubricant ~~to lubricate~~ which lubricates the rollers running through the race ~~into a complete unitary molding with using a mold, the rollers being kept exposed partially at their circular;~~

wherein rolling-surfaces of the rollers of the unitary molding are partially exposed out of an inside

circular surface of the ~~complete~~ unitary molding; and

wherein the ~~complete~~ unitary molding is ~~assembled~~  
~~into~~ engaged in or disengaged out of the race of the bearing  
after the race is assembled by respectively sliding the  
unitary molding in or out of the assembled race.

2. (Currently Amended) ~~[[A]]~~ The rolling-contact  
bearing containing the solid lubricant therein, constructed as  
defined in claim 1, wherein the inside rotating member is a  
stud having a flange integral with ~~[[any]]~~ one of axially  
opposite ends of the guideway area and a rod integrally  
extending from another of the axially opposite ends of the  
guideway area and ~~made less in~~ having a diameter smaller than  
that of the guideway area~~[[,]]~~ and a circular plate ~~fits~~  
fitting over the rod of the stud.

3. (Currently Amended) ~~[[A]]~~ The rolling-contact  
bearing containing the solid lubricant therein, constructed as  
defined in claim 2, wherein the outside rotating member is an  
outer ring recessed at axially opposite ends thereof to form  
setbacks, ~~one to each end,~~ thereby providing an intermediate  
area midway between the setbacks, ~~on which is made~~ forming the  
second raceway, and

wherein the flange on the stud fits in any one of  
the setbacks while the circular plate fits in another of the

~~setback~~ setbacks.

4. (Currently Amended) ~~[[A]]~~ The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 3, wherein thrust rings made of wear-resistant plastics such as polyetheretherketone and ~~se-on~~ respectively fit in the setbacks recessed in the outer ring on and against to the flange and the circular plate, ~~respectively,~~ and wherein the thrust rings are ~~placed~~ located along an outer circumference of axially opposite ends of the ~~complete~~ unitary molding.

5. (Currently Amended) ~~[[A]]~~ The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 3, wherein seal members of synthetic resin or synthetic rubber are respectively placed ~~in a way coming into~~ abutment against outer circumferences of the flange and the circular plate, ~~one to each outer circumference~~.

6. (Currently Amended) ~~[[A]]~~ The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 2, wherein the stud ~~is made therein~~ has an oil port open at a ~~plain~~ free end thereof and communicating with an oil passage, which extends to an radially outside circular surface around the guideway ~~member~~ area, and also communicating with another oil passage, which extends to an

outside circular surface around the rod.

7. (Currently Amended) **[[A]]** The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 3, wherein the outer ring ~~incorporated in any counterpart~~ has an outside surface of spherical configuration.

8. (Currently Amended) **[[A]]** The rolling-contact bearing containing the solid lubricant therein, constructed as defined in ~~any one of claims 1 and 2~~ claim 1; wherein the outside rotating member is an outer ring having flanges at axially opposite ends thereof and a circular area lying midway between the flanges, the cage with the rollers being embraced inside the circular area of the outer ring the cage; wherein the outer ring, the cage with the rollers are all formed together with solid lubricant by use of the mold into a complete unitary molding; and wherein the complete unitary molding including the outer ring therein fits over the inside rotating member.

9. (Currently Amended) **[[A]]** The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 8, wherein the outer ring has an oil groove made circumferentially of a circular outside surface thereof, and an oil hole extended from the circular outside surface to a circular inside surface of the outer ring.

10. (Currently Amended) [[A]] The rolling-contact bearing containing the solid lubricant therein, constructed as defined in ~~any one of claims 1 and 8~~ claim 1, wherein the mold is comprised of an outside mold having an inside circular surface, an inside mold disposed inside the outside mold and made up of a radially thicker area and a radially reduced area less than the thicker area, and an intermediate mold disposed to fit closely over an outside circular surface around the reduced area of the inside mold, defining a circular clearance over the inside circular surface of the outside mold, the intermediate mold being made of a substance that is larger in thermal expansion than other substance for the outside and inside molds, and wherein the cage with the rollers spaced at a preselected interval around the cage is placed together with the solid lubricant and formed into a complete unitary molding with the help of a difference in thermal expansion between the intermediate mold and the outside mold.

11. (Currently Amended) [[A]] The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 10, wherein the cage with the rollers spaced at regular intervals is first placed into the clearance between the intermediate mold and the outside mold and the solid lubricant is poured into the clearance and around the cage and the rollers to fill the clearance as long as to reach

everywhere including gaps left between the cage and every roller, then the mold is heated to get the intermediate mold to expand by heat greater than the outside mold, whereby the solid lubricant is pressed against the rollers around the cage with pressure developed by the difference in thermal expansion between the intermediate mold and the outside mold, followed by solidifying at ambient temperature into the complete unitary molding.

12. (Currently Amended) ~~[[A]]~~ The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 11, wherein the solid lubricant in solution state is poured into the clearance and around the cage and the rollers to fill the clearance as long as to reach everywhere including gaps left between the cage and every roller, followed by solidifying at ambient temperature.

Claim 13. (Canceled)

14. (New) A rolling-contact bearing containing solid lubricant therein comprising;

an inside rotating member having a guideway area made thereon with a first raceway, an outside rotating member rotary relative to the inside rotating member and having a second raceway opposed to the first raceway; and

a cage with rollers spaced at a preselected interval around the cage to roll through a race defined between the first raceway on the inside rotating member and the second raceway on the outside rotating member;

wherein the outside rotating member is an outer ring having flanges at axially opposite ends thereof and a circular area lying midway between the flanges, the cage with the rollers being engaged against the circular area of the outer ring;

wherein the outer ring, the cage with the rollers are all engaged together as a separate unitary molding in a mold by a solid lubricant; and

wherein the unitary molding including the outer ring therein is slid over the inside rotating member to form the assembled bearing.

15. (New) The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 14, wherein the outer ring has an oil groove made circumferentially of a circular outside surface thereof, and an oil hole extended from the circular outside surface to a circular inside surface of the outer ring.

16. (New) The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim

14, wherein the mold is comprised of an outside mold having an inside circular surface, an inside mold disposed inside the outside mold and made up of a radially thicker area and a radially reduced area less than the thicker area, and an intermediate mold disposed to fit closely over an outside circular surface around the reduced area of the inside mold, defining a circular clearance over the inside circular surface of the outside mold, the intermediate mold being made of a substance that is larger in thermal expansion than other substance for the outside and inside molds.

17. (New) The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 16, wherein the outside rotating member of the outer ring having flanges at axially opposing ends thereof is placed in the clearance between the intermediate mold and the outside mold, and the cage with the rollers spaced at regular intervals is surrounded with the inside circular surface of the inside of the outer ring.

18. (New) The rolling-contact bearing containing the solid lubricant therein, constructed as defined in claim 17, wherein the solid lubricant is poured in the clearance and around the outer ring, cage and the rollers to fill the clearance as long as to reach everywhere including gaps left



between the cage and every roller, then the mold is heated to get the intermediate mold to expand by heat greater than the outside mold, whereby the solid lubricant is pressed against the rollers around the cage with pressure developed by the difference in thermal expansion between the intermediate mold and the outside mold, followed by solidifying at ambient temperature into the unitary molding.